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(54) Title: CHIP-BASED SPECIATION AND PHENOTYPIC CHARACTERIZATION OF MICROORGANISMS

(57) Abstract

This invention provides oligonucleotide-based arrays and methods for speciating and phenotyping organisms, for example, using oligonucleotide sequences based on the *Mycobacterium tuberculosis* *rhoB* gene. The groups or species to which an organism belongs may be determined by comparing hybridization patterns of target nucleic acid from the organism to hybridization patterns in a database.